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<!--StartFragment-->RESULT 1
AAW69697
ID   AAW69697 standard; protein; 365 AA.
XX
AC   AAW69697;
XX
DT   07-DEC-1998  (first entry)
XX
DE   Human coxsackievirus and Ad2 and Ad5 receptor HCAR protein.
XX
KW   HCAR; coxsackievirus receptor; CVB; adenovirus; Ad2 receptor;
KW   Ad5 receptor; human; infection; vaccine; therapy.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Domain          35. .130
FT                   /note= "extracellular immunoglobulin domain"
FT   Region          45. .52
FT                   /note= "CVB binding region (Claim 6)"
FT   Region          47. .51
FT                   /note= "Ad2/5 and CVB binding region (Claim 6)"
FT   Region          53. .57
FT                   /note= "Ad2/Ad5 binding region (Claim 6)"
FT   Region          69. .73
FT                   /note= "Ad2/Ad5 binding region (Claim 6)"
FT   Region          72. .77
FT                   /note= "Ad2/5 and CVB binding region (Claim 6)"
FT   Region          72. .77
FT                   /note= "CVB-binding region (Claim 6)"
FT   Region          77. .79
FT                   /note= "Ad2/Ad5 binding region (Claim 6)"
FT   Region          96. .100
FT                   /note= "CVB-binding region (Claim 6)"
FT   Region          122. .127
FT                   /note= "Ad2/5 and CVB binding region (Claim 6)"
FT   Domain          155. .220
FT                   /note= "extracellular immunoglobulin domain"
XX
PN   WO9833819-A1.
XX
PD   06-AUG-1998.
XX
PF   30-JAN-1998;   98WO-US001724.
XX
PR   30-JAN-1997;   97US-0036986P.
XX
PA   (UYNY ) UNIV NEW YORK STATE.
XX
PI   Tomko RP,  Philipson L;
XX
DR   WPI; 1998-437397/37.
DR   N-PSDB; AAV50429.
XX
PT   DNA encoding human receptor for adenovirus C and coxsackievirus B - for
PT   preventing and treating viral infection and rendering cells susceptible
PT   to transformation by adenoviral vectors in gene therapy.
XX
PS   Claim 3; Page 67-68; 88pp; English.
XX
CC   This is the amino acid sequence of human HCAR, a protein that serves as a
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CC   cellular receptor for adenoviruses of the serotypes 2 and 5 (subgroup C)
CC   and for the group B coxsackieviruses (CVB). The sequence was deduced from
CC   an isolated cDNA clone for HCAR (see AAV50429). The invention also
CC   provides host cells transformed with DNA molecules encoding HCAR or mouse
CC   MCAR (see AAW69698) and methods of producing the recombinant proteins or
CC   their derivatives. These proteins, their extracellular domains, as well
CC   as oligopeptides (see AAW69699-708) which bind virus, are claimed.
CC   Isolated HCAR or MCAR proteins or their fragments or variants are used to
CC   prevent or treat virus infections and for inhibiting the infectivity of
CC   Ad2, Ad5 or CVB. Methods are also provided for detecting or measuring the
CC   quantity of HCAR or MCAR in a sample, and for identifying analytes
CC   capable of binding to HCAR or MCAR
XX
SQ   Sequence 365 AA;

  Query Match             99.4%;  Score 1880;  DB 2;  Length 365;
  Best Local Similarity   99.5%;  Pred. No. 1.1e-159;
  Matches  363;  Conservative    0;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 MALLLCFVLLCGVVDFARSLSITTPEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLIS 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 MALLLCFVLLCGVVDFARSLSITTPEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLIS 60

Qy         61 PADNQKVDQVIILYSGDKIYDDYYPDLKGRVHFTSNDLKSGDASINVTNLQLSDIGTYQC 120
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Qy        121 KVKKAPGVANKKIHLVVLVKPSGARCYVDGSEEIGSDFKIKCEPKEGSLPLQYEWQKLSD 180
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Db        121 KVKKAPGVANKKIHLVVLVKPSGARCYVDGSEEIGSDFKIKCEPKEGSLPLQYEWQKLSD 180

Qy        181 SQKMPTSWLAEMTSSVISVKNASSEYSGTYSCTVRNRVGSDQCLLRLNVVPPSNKAGLIA 240
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Db        181 SQKMPTSWLAEMTSSVISVKNASSEYSGTYSCTVRNRVGSDQCLLRLNVVPPSNKAGLIA 240

Qy        241 GAIIGTLLALALIGLIIFCCRKKRREEKYEKEVHHDIREDVPPPKSRTSTARSYIGSNHS 300
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Qy        301 SLGSMSPSNMEGYSKTQYNQVPSEDFERTPQSPTLPPAKVALLNLSRMGAIPVMIPAQSK 360
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Qy        361 DGSIV 365
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Db        361 DGSIV 365
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